

**T. H. BROOKS
& COMPANY**

1909

Cleveland, Ohio

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Alan O'Bright

1909

ESTABLISHED 1875

1909

T. H. BROOKS & Co.

MANUFACTURERS OF

STRUCTURAL and ORNAMENTAL
IRON WORK

IRON STORE FRONTS

IRON STAIRS & RAILINGS

Illuminated Sidewalk Lights of every
Description.

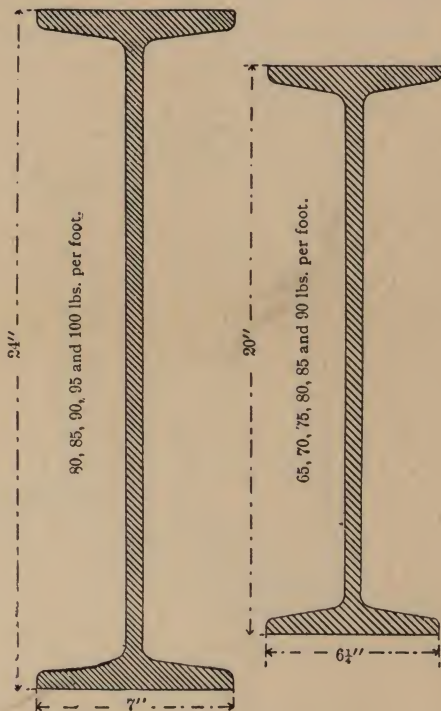
OFFICE AND WORKS

No. 3104 Lakeside Avenue
CLEVELAND, OHIO.

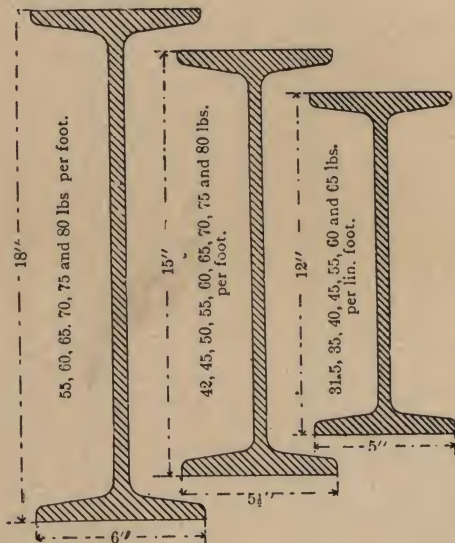


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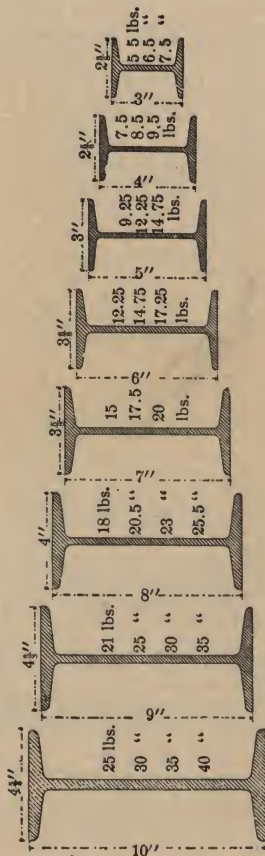
Dimensions given are for minimum weights.



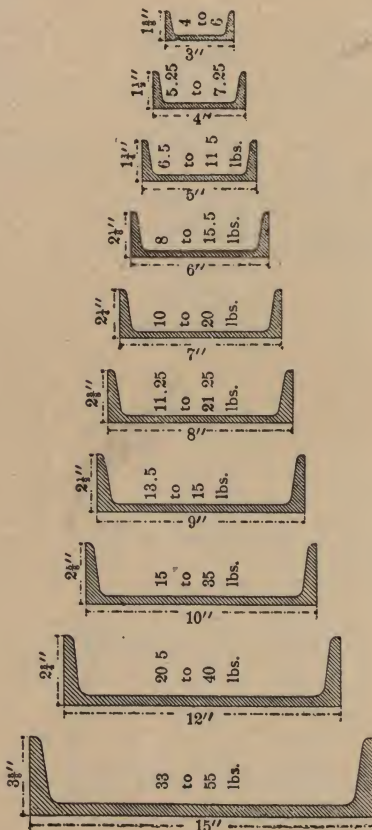
Dimensions given are for minimum weights.

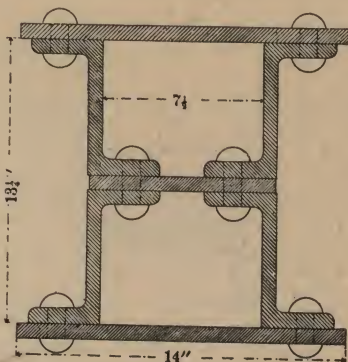
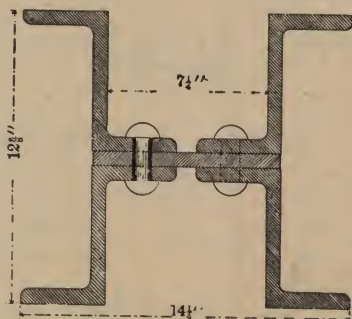


Dimensions given are for minimum weights.

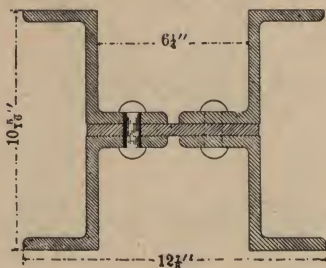
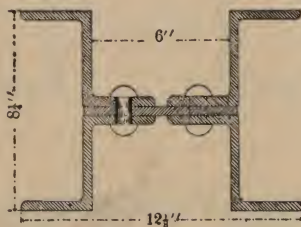
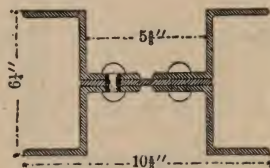


Dimensions given are for minimum weights.

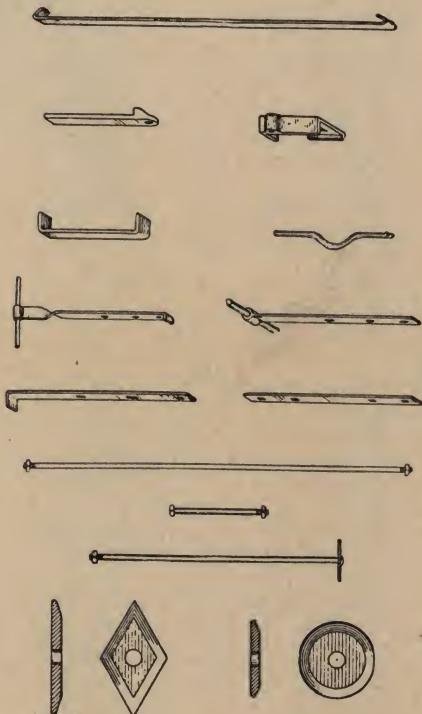




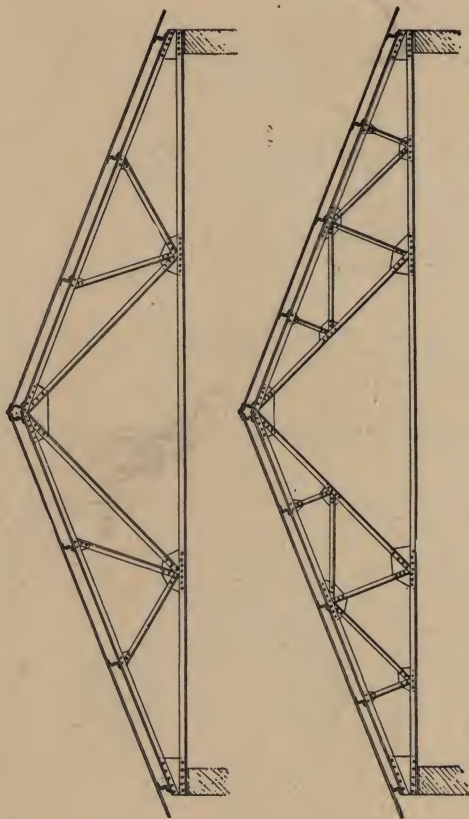
12" and 14" Z-bar Columns.

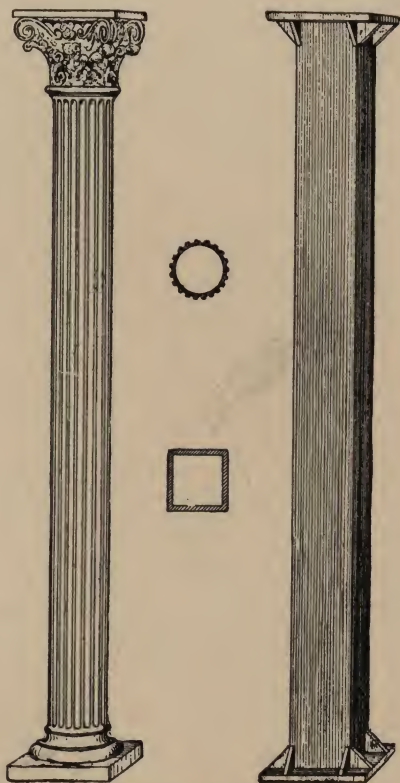


6'', 8'' and 10'' Z-bar Columns.

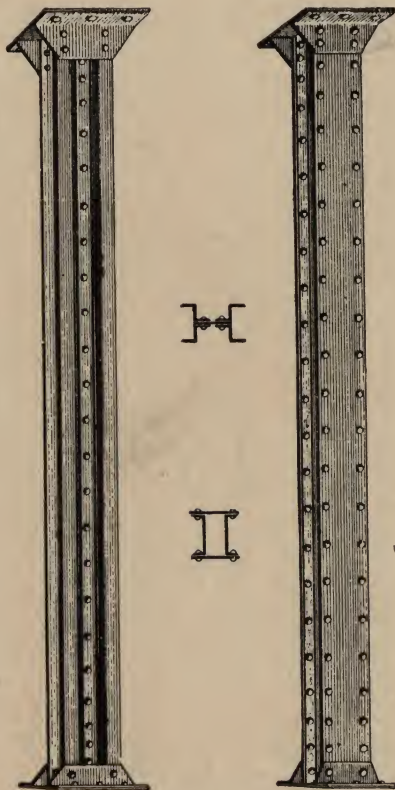


W. I. Anchors.



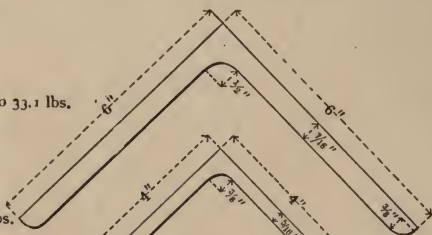


Cast Iron Columns.



Steel Columns.

17.2 to 33.1 lbs.



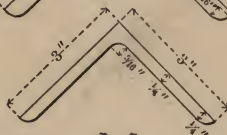
8.2 to 19.9 lbs.



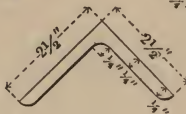
8.5 to 17.1 lbs.



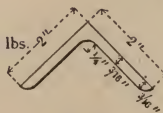
4.9 to 11.4 lbs.



4.1 to 7.7 lbs.



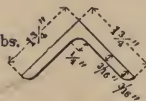
2.5 to 5.3 lbs.



1.0 to 2.4 lbs.



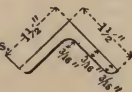
2.1 to 4.6 lbs.



0.8 to 1.5 lbs.



1.8 to 3.4 lbs.



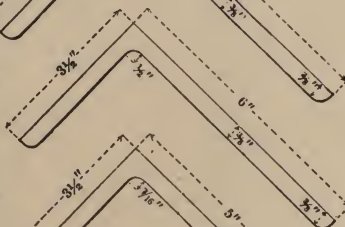
0.6 to 0.8 lbs.



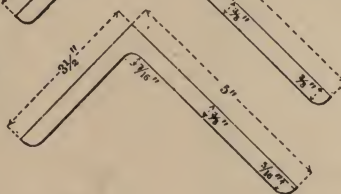
12.3 to 27.2 lbs.



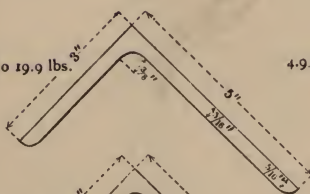
11.7 to 25.7 lbs.



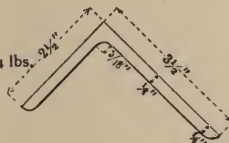
10.4 to 22.7 lbs.



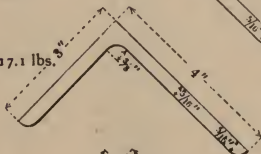
8.2 to 19.9 lbs.



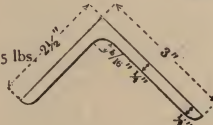
4.9 to 12.4 lbs.



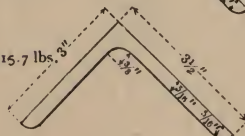
7.1 to 17.1 lbs.



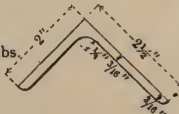
4.5 to 9.5 lbs.



6.6 to 15.7 lbs.



2.8 to 6.8 lbs.



SAFE LOAD, IN TONS, FOR CAST-IRON COLUMNS WITH TURNED CAPITALS AND BASES.

Length in Feet.	Outside Diam. 4 in.			Outside Diam. 5 in.			Outside Diam. 6 in.			Outside Diam. 8 in.			Outside Diam. 10 in.			Outside Diam. 12 in.			Outside Diam. 14 in.			Outside Diam. 16 in.		
	Thick-ness in Inches.		Thick-ness in Inches.	Thick-ness in Inches.		Thick-ness in Inches.	Thick-ness in inches.		Thick-ness in inches.	Thick-ness in Inches.		Thick-ness in Inches.	Thick-ness in Inches.		Thick-ness in Inches.	Thick-ness in Inches.		Thick-ness in Inches.	Thick-ness in Inches.		Thick-ness in Inches.	Thick-ness in Inches.		Thick-ness in Inches.
	1½	¾		1	¾		1	¾		1	¾		1	¾		1	¾		1	¾		1	¾	
7	24.9	32.9	39.5	53.8	77.3	95.5	128.3	162.6	193.0	181.6	233.4	280.9	324.2	305.3	370.8	431.7	977.7	461.1	539.9	449.8	551.1	648.0		
8	21.7	28.4	35.1	47.6	69.7	85.7	118.7	150.1	177.7	171.1	219.5	263.8	303.9	290.9	352.8	410.2	963.1	442.8	518.0	435.0	532.8	626.3		
9	19.0	24.8	31.3	42.3	62.8	77.1	109.8	138.5	163.6	160.9	206.2	247.3	284.6	276.6	335.0	389.1	948.5	424.4	496.3	420.5	514.6	604.1		
10	17.4	22.0	28.0	37.7	56.9	69.6	101.5	127.8	150.7	151.2	193.4	231.6	266.0	262.7	317.7	368.6	933.8	406.3	474.6	405.6	496.0	581.8		
11	14.8	16.7	25.2	33.8	51.6	63.0	94.0	118.0	139.0	142.0	181.4	216.9	248.7	249.2	301.0	348.8	931.4	388.5	453.4	390.6	477.4	559.8		
12	12.7	16.2	22.7	30.3	46.9	57.2	87.0	109.2	128.2	133.4	170.1	203.1	232.6	236.3	285.1	330.0	905.4	371.1	432.6	376.0	459.3	538.0		
13	11.4	14.1	21.0	27.6	42.9	52.1	80.7	101.1	118.5	125.3	159.6	190.3	217.7	223.9	270.0	312.2	921.8	351.3	412.7	361.4	441.2	516.7		
14	9.8	12.4	18.5	24.3	39.3	47.6	75.0	93.8	109.8	117.8	149.8	178.4	203.8	212.3	255.6	295.3	927.8	338.2	393.6	347.6	423.8	495.9		
15	8.7	11.1	16.5	22.1	36.8	43.9	69.8	87.1	101.9	110.8	140.7	167.5	191.1	201.2	242.1	279.4	926.2	322.7	375.3	333.9	406.9	475.9		
16	7.8	9.9	14.8	19.4	33.0	39.4	65.0	81.1	94.7	104.3	132.4	157.3	179.3	190.8	229.4	264.5	925.3	308.0	357.9	320.7	390.6	456.6		
17	7.0	8.9	13.7	17.9	29.8	35.5	56.7	75.7	88.3	98.3	124.6	148.0	168.5	181.1	217.5	250.6	924.9	294.0	341.4	308.0	374.9	438.0		
18	6.4	8.1	12.1	15.9	27.0	32.2	50.8	70.7	82.4	92.7	117.4	139.3	158.5	171.9	206.3	237.5	923.2	260.6	305.8	270.9	335.9	402.1		
19	5.8	7.4	11.0	14.5	24.6	29.4	53.2	66.2	77.1	87.5	110.8	131.3	149.3	163.3	195.8	225.3	922.1	268.0	310.8	284.1	345.4	403.0		
20	5.3	6.8	10.1	13.3	22.6	26.9	51.1	62.7	72.1	82.7	104.6	124.0	140.8	155.2	186.0	213.9	921.2	258.1	296.7	272.9	331.6	386.8		
21	4.9	6.2	9.3	12.2	20.8	24.8	47.0	57.7	66.4	78.3	99.0	117.2	133.0	147.7	176.9	203.2	920.2	244.7	283.5	262.1	318.4	371.2		
22	4.6	5.8	8.6	11.1	19.2	22.9	43.5	53.3	61.3	74.2	93.0	110.9	125.8	140.6	168.3	193.3	919.0	234.0	270.9					
23	4.2	5.3	8.0	10.5	17.8	21.2	40.3	49.4	56.8	70.4	88.9	105.1	119.1	134.0	160.3	184.0	185.7	224.0	263.1	242.2	293.9	342.3		
24	3.9	5.0	7.4	9.7	16.6	19.7	37.5	46.0	52.9	66.9	84.3	99.7	112.9	127.8	152.8	175.3	177.9	214.4	248.0	232.9	282.5	328.8		
25	3.7	4.6	6.9	9.1	15.4	18.4	35.0	42.9	49.3	64.9	81.0	94.2	106.3	122.0	145.8	167.1	170.5	205.4	192.7	224.0	271.6	316.1		

SAFE LOADS, UNIFORMLY DISTRIBUTED, FOR STEEL I BEAMS, IN TONS OF 2,000 LBS.

For concentrated load at centre of beam take one-half amount given in table.

D'pth of Beams	Wt. per Foot.	DISTANCE BETWEEN SUPPORTS IN FEET.															
		6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
4"	7½	2.53	1.97	1.57	1.32	1.13	0.97	0.87	0.79								
4"	10½	3.14	2.36	1.87	1.59	1.34	1.18	1.05	0.94								
5"	9½	4.41	3.31	2.65	2.20	1.89	1.65	1.47	1.32	1.20							
5"	14½	5.51	4.11	3.27	2.75	2.34	2.05	1.82	1.67	1.51							
6"	12½	6.78	5.07	4.06	3.40	2.91	2.54	2.29	2.03	1.77							
6"	17½	8.08	6.07	4.86	4.05	3.46	3.04	2.74	2.43	2.12							
7"	15	9.65	7.24	5.79	4.83	4.14	3.63	3.24	2.91	2.58							
7"	20	11.20	8.39	6.69	5.58	4.79	4.18	3.74	3.36	2.98							
8"	18	12.83	9.64	7.71	6.41	5.51	4.80	4.30	3.83	3.36							
8"	25½	15.63	11.72	9.39	7.77	6.71	5.84	5.07	4.63	4.19							
9"	21				8.34	7.16	6.28	5.52	5.02	4.52	4.20	3.88	3.54	3.31			
9"	35				11.14	9.54	8.33	7.34	6.70	6.06	5.60	5.14	4.66	4.42			
10"	25				10.84	9.35	8.18	7.28	6.56	5.96	5.44	5.01	4.66	4.38			
10"	40				14.14	12.20	10.58	9.53	8.44	7.76	7.09	6.51	6.01	5.61			
12"	31½				16.34	14.04	12.24	10.90	9.81	8.92	8.17	7.55	7.01	6.54	6.13	5.77	5.46
12"	40				20.80	17.81	15.64	13.92	12.54	11.40	10.44	9.64	8.95	8.36	7.83	7.34	6.97
15"	42				25.54	22.51	19.69	17.54	15.79	14.34	13.12	12.11	11.28	10.50	9.86	9.31	8.78
15"	55				33.10	28.16	24.81	22.08	19.84	18.05	16.53	15.28	14.06	13.23	12.41	11.56	10.71
18"	55				39.95	34.24	29.97	26.64	23.97	21.79	19.78	18.44	17.12	15.98	14.98	13.84	12.52
18"	90				59.41	50.92	44.56	39.61	35.65	32.41	29.70	27.42	25.46	23.76	22.28	20.57	18.75
20"	65				52.43	43.64	38.20	33.97	30.54	27.76	25.47	23.51	21.81	20.36	19.12	17.96	16.99
20"	75				56.79	48.08	44.59	39.57	35.96	32.64	29.71	27.61	25.64	23.88	22.39	20.94	19.64
24"	80				76.24	65.40	57.24	50.87	45.75	41.61	38.16	35.22	32.71	30.52	28.61	26.93	25.41
24"	100				86.84	74.60	65.24	58.07	52.15	47.41	43.56	40.21	37.32	34.72	32.62	30.73	29.02

For concentrated load at centre of channel take one-half amount in table.

LENGTH OF SPAN IN FEET.

SAFE LOADS.

IRON VAULT LIGHTS.



Price List.

16	inch diameter, round.....	\$3.50
18	“ “ “	5.00
21	“ “ “	6.50
23	“ “ “	8.00

Kept in Stock.

For Thimbles for above Vault Lights, see page 20.

CONCRETE VAULT LIGHTS.



Price List.

16	inch diameter	\$4.00
18	" "	5.50
20	" "	7.00
24	" "	8.50

Kept in Stock.

For Thimbles for above Vault Lights, see page 20.

THIMBLES.

For Iron Vault Lights, Concrete Coal-Hole
Lights and Concrete Vault Lights.



Price List.

Thimble for 16 inch Round Vault Light.....	\$2.50
“ “ 18 “ “ “ “	3.00
“ “ 20 “ “ “ “	3.50
“ “ 21 “ “ “ “	4.00
“ “ 23 “ “ “ “	4.50
“ “ 24 “ “ “ “	5.00

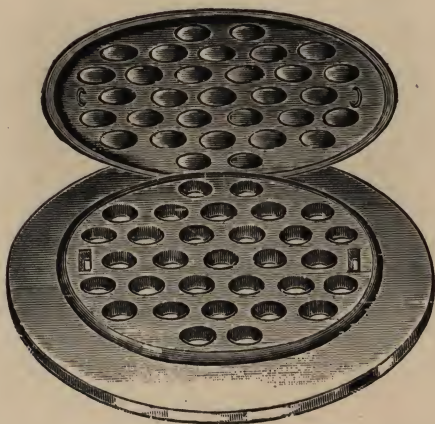
Kept in Stock.

Above Thimbles are 4 inches deep.

Deeper Thimbles made to order on short notice.

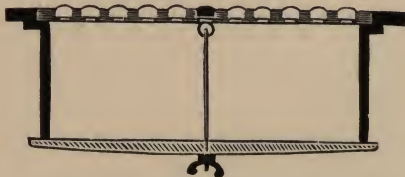
Price according to size and depth.

ILLUMINATED COVER.



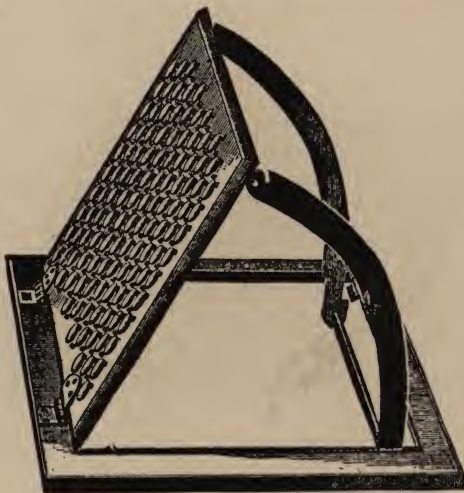
Can be removed and left open.
Cover beneath for ventilation.
Both covers can be removed to admit coal.

VAULT RING AND COVER.



See pages 18 and 19 for sizes.

VENTILATING DOORS.



Cut showing construction of Ventilating Door.

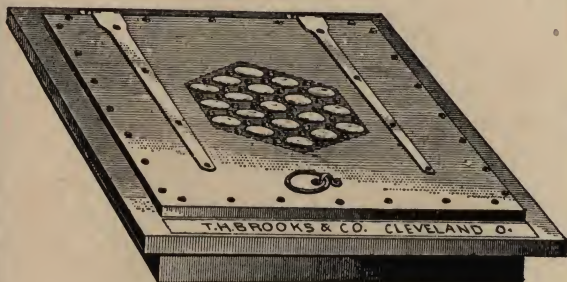
Price List.

Small Ventilating Door, 22 inches square, 16 inch square opening, 37 glasses.....	\$12.00
Medium Ventilating Door, 26 inches square, 20 inch square opening, 63 glasses.....	16.00
Large Ventilating Door, 30 inches square, 24 inch square opening, 103 glasses.....	20.00

Kept in Stock.

These doors are self-locking and water tight when closed, and protect the hole when open.

STEEL VAULT LIGHT COAL-HOLE DOORS.



Price List.

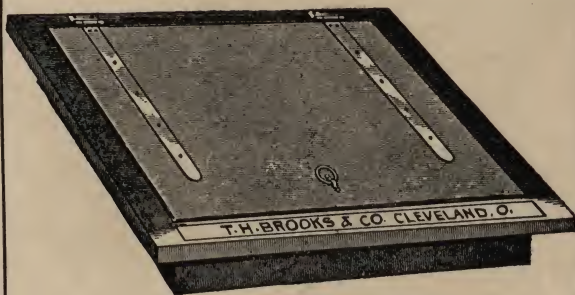
Small Door, 26 inches square, 20 inch square opening, 19 glasses.....	\$18.00
Large Door, 30 inches square, 24 inch square opening, 19 glasses.....	24.00

Kept in Stock.

These doors are made strong, have a heavy cast iron frame, and wrought steel door. They are well adapted for taking in steam coal or small freight, are water tight when closed, and lock with a bolt on under side.

Other sizes made to order.

STEEL COAL-HOLE DOOR.



Price List.

Small Door, 26 inches square, 20 in. square opening..\$16.00

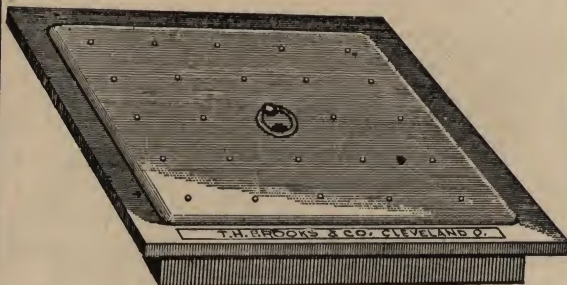
Large Door, 30 inches square, 24 in. square opening.. 20.00

Kept in Stock.

These doors are made strong, have a heavy cast iron frame, and wrought steel door. They are well adapted for taking in steam coal or small freight, are water tight when closed, and lock with a bolt on under side.

Other sizes made to order.

STEEL COAL-HOLE COVER AND THIMBLE.



Price List.

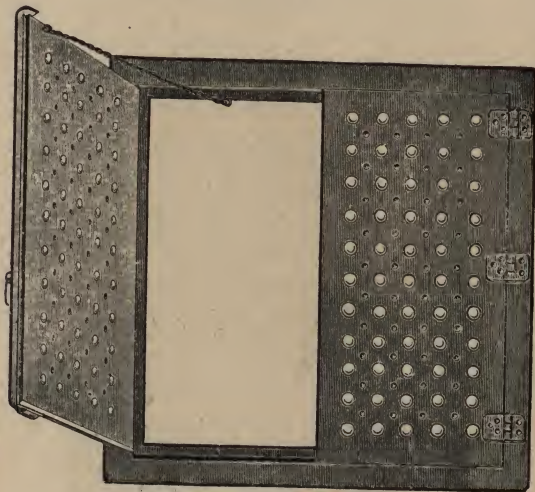
Small Cover, 26 inches square, 20 inch square opening	\$16.00
Large Cover, 30 inches square, 24 inch square opening	20.00

Kept in Stock.

These covers are made strong, have a heavy cast iron frame, and wrought steel cover, well supported with angle iron. They are well adapted for taking in steam coal or small freight, are water tight when closed, and lock with a bolt on under side. These covers can be flush with the frame or raised as shown.

Other sizes made to order.

ILLUMINATED LIGHT STEEL PLATE DOORS.



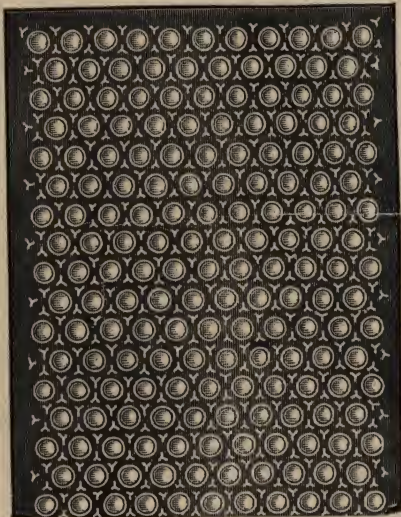
The construction of these doors is such that they will withstand the roughest usage; made entirely of steel plate—making a very light door to operate and perfectly water-tight when closed.

We can furnish any size, illuminated or plain.

Galvanized Doors, 50c. per square foot extra.

All work fitted ready to lay in position, with necessary bolts, bearing bars, etc.

COMMON BULL'S-EYE SIDEWALK PLATE.

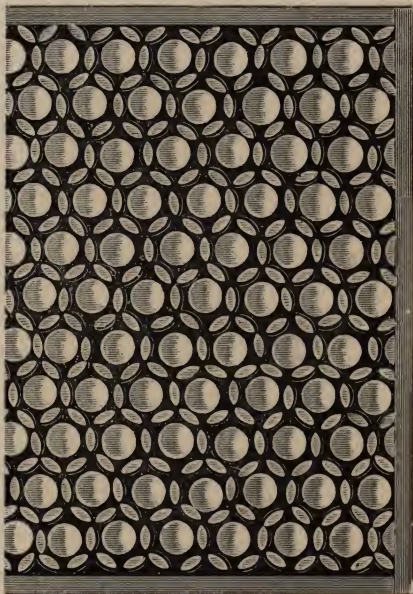


The above cut represents a glazed panel of the "Hyatt," or Common Bull's-eye light. We make this style with $1\frac{5}{8}$ -inch lenses, set in with our improved elastic cement, making it absolutely water-tight and the strongest plate in the market. We recommend this plate where heavy loads or freight is handled.

We can fill orders for any size desired, steps and risers any length.

All work fitted ready to lay in position, with necessary bolts, bearing bars, etc.

COMMON BULL'S-EYE SIDEWALK PLATE.



The above cut represents an Elongated Knob-Protected Bull's-eye plate.

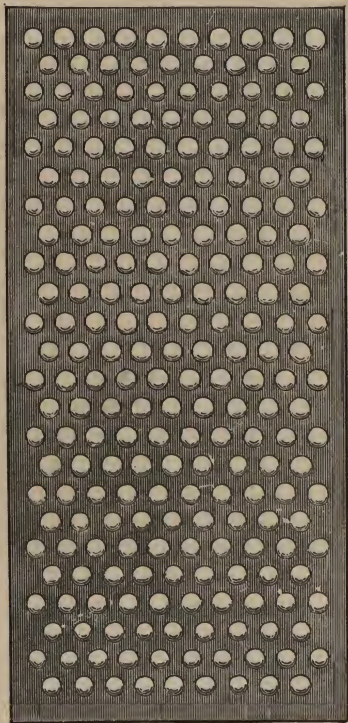
We call particular attention to the elongated bearing for the feet, making a surface level to walk upon.

We make this pattern with either two or three-inch diameter lenses, with more glass area to the square foot than any other pattern in the market. Will carry a load of 200 pounds per square foot and has been adopted as standard.

We can fill orders for any size, off same pattern.

All work fitted ready to lay in position, with necessary bolts, bearing bars, etc.

CONCRETE, ILLUMINATED, SMOOTH SURFACE SIDEWALK PLATE.



The above cut represents a Concrete, Illuminated, Smooth Surface Sidewalk Plate, possessing a non-slippery surface, free from knobs or projections, and perfectly even for the feet. We can make color to harmonize with any stone, is very durable, improves with age, perfectly water-tight, and the most popular tiling of the day.



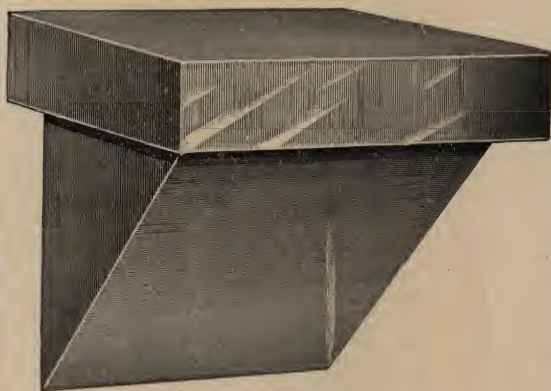
Top of 3 x 4 Pattern.

The cuts on pages 31 and 32 represent our new pattern 3" x 4" lenses. We make this in either concrete smooth surface or iron pattern. The latter style especially commends itself to architects and owners for the reason that the glass and iron are flush on the under side as well as on top; this makes it possible and very easy to keep the glass clean, a consideration which no other pattern presents.

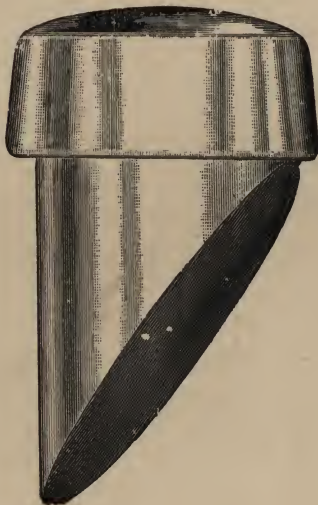


Bottom Side 3 x 4 Pattern.

For description see page 31.



3 x 4 Pendant Lenses.



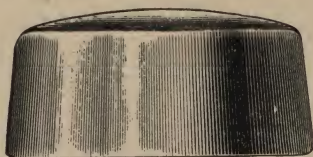
Above cut represents our styles of
Pendant Lenses.



3-inch diameter Bull's-eye.



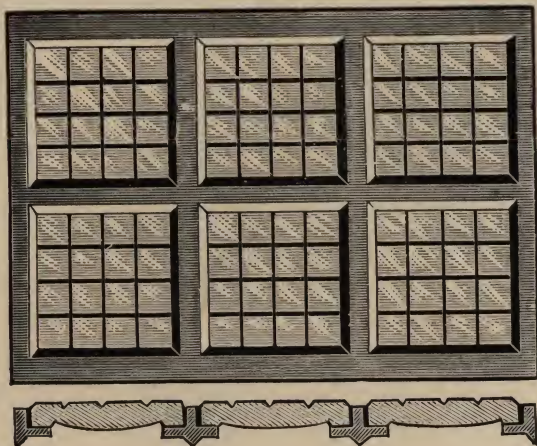
2-inch diameter Bull's-eye.



1 $\frac{5}{8}$ -inch diameter Bull's-eye.

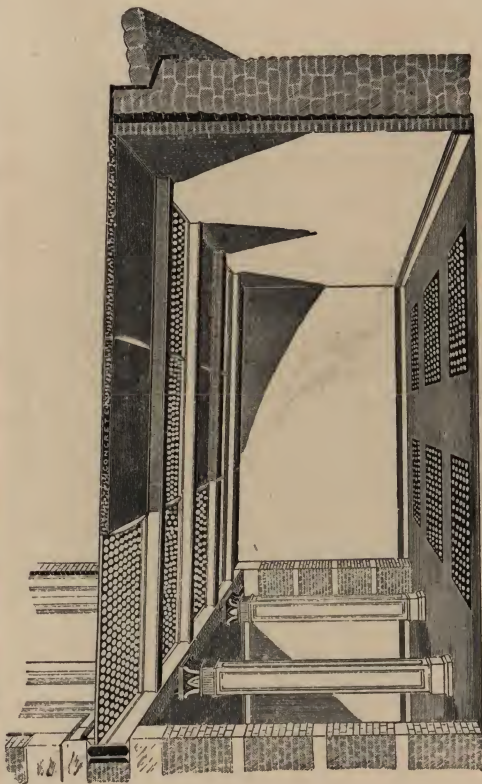
Above cuts represent Bull's-eye and Concrete Lenses.

FLOOR LIGHT.

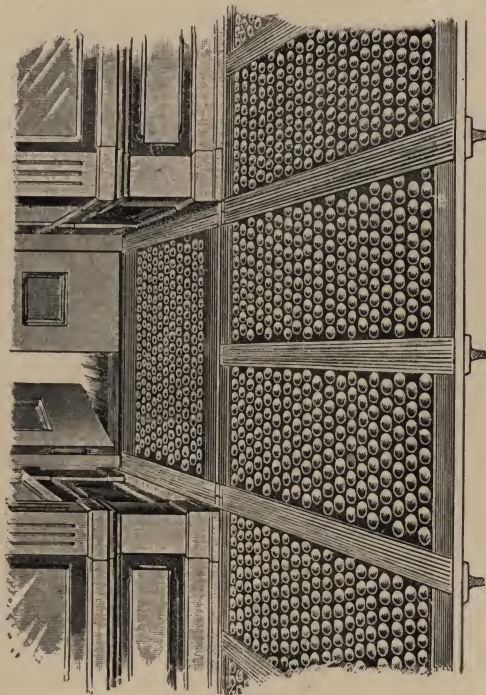


Can furnish any size glass desired.

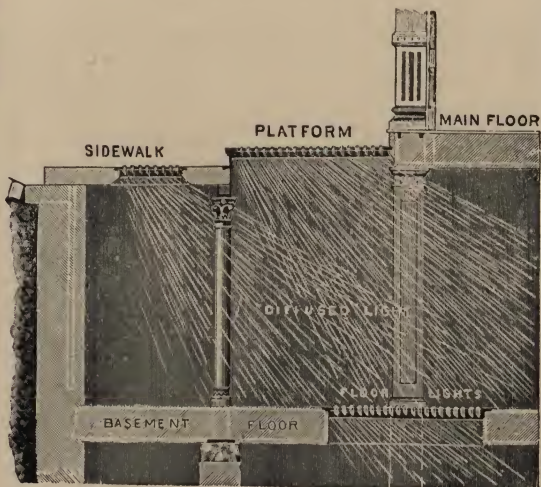
All work fitted ready to lay in position, with necessary bolts, bearing bars, etc.



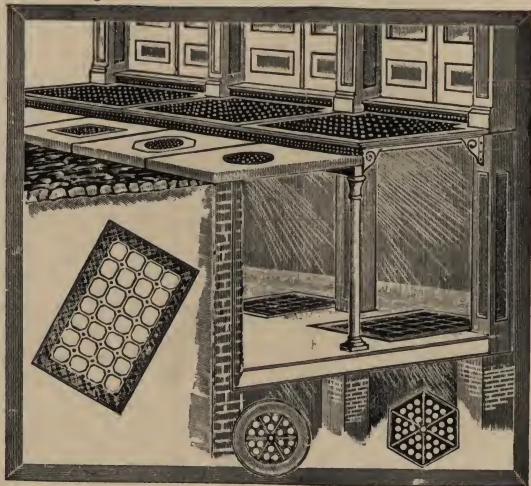
Above cut represents a first story cast iron front, for which we have patterns.



The above cut represents concrete vestibule.



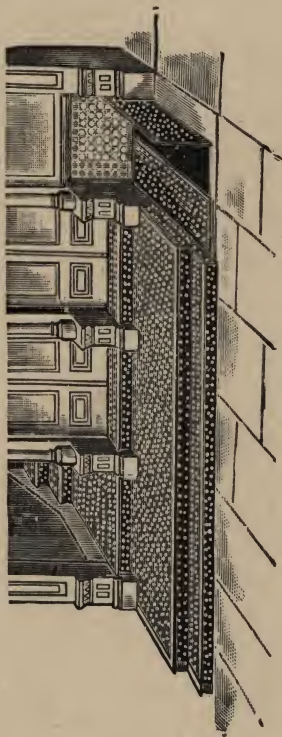
Above cut illustrates the operation of
Pendant Lenses.



View of Interior and Exterior Work.



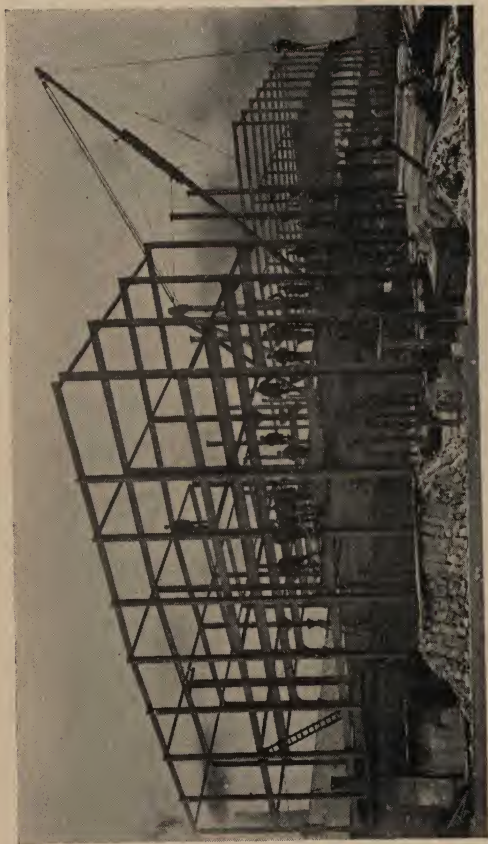
Inside view of first story extension with curved roof.



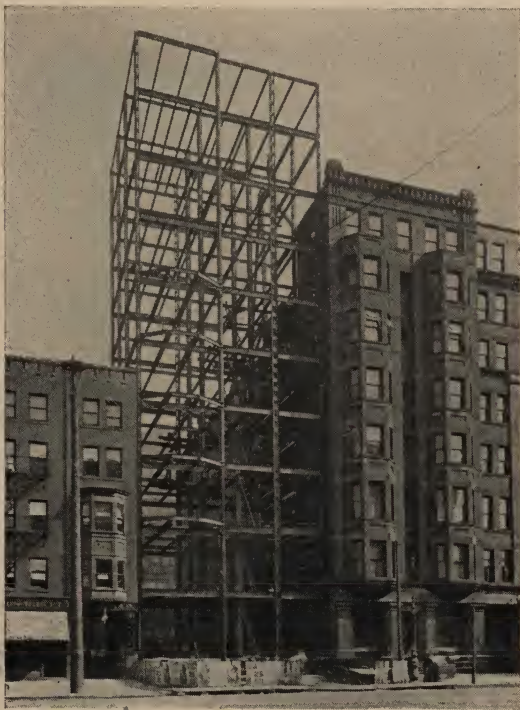
Cut representing Steps and Risers.



Stamped Steel Plate. Can furnish in different designs.



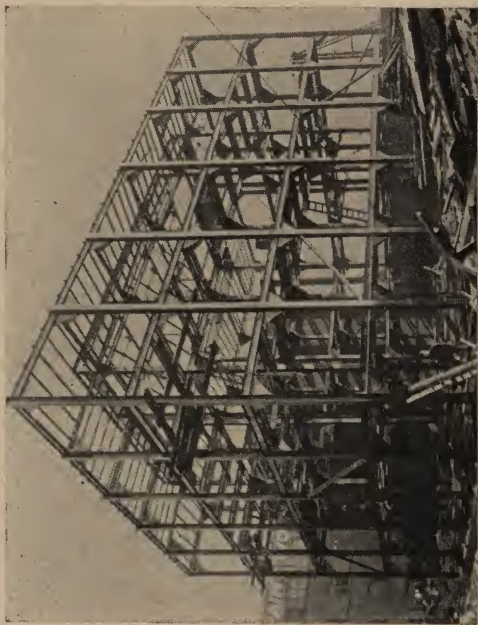
The Cleveland Hardware Company's Building, Cleveland, O.



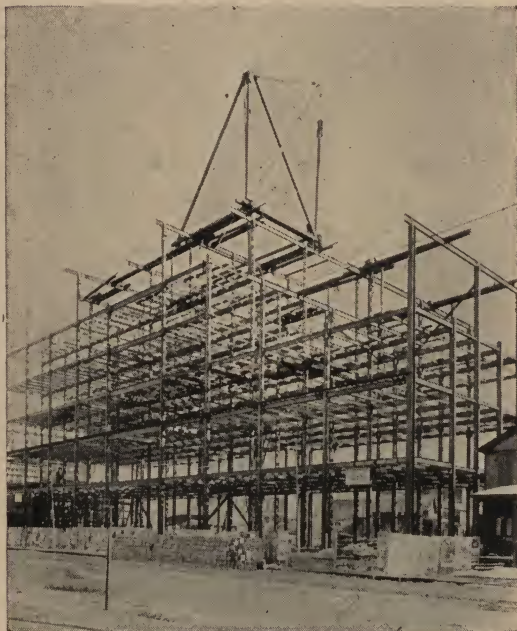
Hollenden Hotel Annex,
Cleveland, O.



Sault Ste. Marie Government Power House.



The Sherwin-Williams Company's Building, Cleveland, O.



Electric Terminal Building.
Cleveland, O.

LIST OF BUILDINGS.

Cleveland Arcade.....	Cleveland, O.
L. S. & M. S. Railway Offices.....	Cleveland, O.
Electric Terminal.....	Cleveland, O.
The Sherwin-Williams Co.....	Cleveland, O.
Cleveland Elec. & Illuminating Co..	Cleveland, O.
Acme Machine Co.....	Cleveland, O.
Cleveland Hardware Co.....	Cleveland, O.
Cleveland Electric Railway.....	Cleveland, O.
W. S. Tyler Wire Co.....	Cleveland, O.
Ohio Baking Co.....	Cleveland, O.
Hollenden Hotel.....	Cleveland, O.
Bennet & Fish.....	Cleveland, O.
Franklin High School.....	Cleveland, O.
Lincoln High School.....	Cleveland, O.
East High School.....	Cleveland, O.
Cleveland Twist Drill Co.....	Cleveland, O.
Lake Shore Foundry Co.....	Cleveland, O.
M. A. Bradley.....	Cleveland, O.
L. T. Scofield.....	Cleveland, O.
Opera House.....	Wheeling, W. Va.
Second National Bank.....	Pittsburgh, Pa.
Henry Hotel.....	Pittsburgh, Pa.
Lincoln Bank.....	Pittsburgh, Pa.
East Liberty Bank.....	Pittsburgh, Pa.
Y. W. C. A. Building.....	Cleveland, O.
First National Bank.....	Cleveland, O.
Cleveland Worsted Mills Co.....	Cleveland, O.
White Co. Office Bldg.....	Cleveland, O.
Park Drop Forge Co.....	Cleveland, O.

LIST OF BUILDINGS—Continued

Peerless Motor Car Co.....	Cleveland, O.
Grasselli Chemical Co.....	Cleveland, O.
Plain Dealer Bldg.....	Cleveland, O.
Sterling Welch Co.....	Cleveland, O.
Cleveland Foundry	Cleveland, O.
Babcock Electric Co.....	Cleveland, O.
Standard Brewing Co.....	Cleveland, O.
Euclid Bowling Alleys.....	Cleveland, O.
Lake Erie Iron Co.....	Cleveland, O.
Majestic Theatre.....	Cleveland, O.
Cleveland Twist Drill Co.....	Cleveland, O.
Cleveland Punch & Shear Co.....	Cleveland, O.
Cleveland Trust Co. Skylight.....	Cleveland, O.
Country Club.....	Cleveland, O.
Cleveland Burial Case Co.....	Cleveland, O.
St. Luke's Hospital.....	Cleveland, O.
Wick Building.....	Youngstown, O.
Mahoning Co. Court House.....	Youngstown, O.
Callahan Building.....	Youngstown, O.
Dean Electric Building.....	Elyria, O.
C. & S. W. Traction Co.....	Elyria, O.
Elyria Iron & Steel Co.....	Elyria, O.
Perry Fay Co.....	Elyria, O.
Long & Taylor Building.....	Akron, O.
American Seeding Co.....	Springfield, O.
American Seeding Co.....	Richmond, Ind.
Bay View Foundry Co.....	Sandusky, O.
St. Mary's School.....	Sandusky, O.
Ball Engine Co.....	Erie, Pa.
Correction Square.....	Warrensville, O.
Forest City Live Stock & Farm Co...	Randall, O.
J. H. Wade Residence.....	Gates Mill, O.

LIST OF BUILDINGS—Continued

Y. M. C. A. Building.....	Steubenville, O.
F. & P. M. Railway.....	Detroit, Mich.
Hollingsworth	Youngstown, O.
Miller	Youngstown, O.
Zollinger	Canton, O.
Telephone	Canton, O.
U. S. Power House.....	Sault Ste. Marie
Ohio State Reformatory.....	Mansfield, O.
Government Postoffice.....	Peoria, Ill.
Schmidt Building.....	Detroit, Mich.
Governor Bagley Estate.....	Detroit, Mich.
National Union.....	Toledo, O.
Board of Trade.....	Wheeling, W. Va.
Pilgrim Church.....	Cleveland, O.
N. O. Stone.....	Cleveland, O.
Jewish Orphan Asylum.....	Cleveland, O.
Jewish Tabernacle.....	Cleveland, O.
Jewish Club.....	Cleveland, O.
Leisy Brewing Co.....	Cleveland, O.
Turner Worsted Co.....	Cleveland, O.
K. D. Box and Label Co.....	Cleveland, O.
Tavistock Flats.....	Cleveland, O.
Wyandotte Flats.....	Cleveland, O.
Annisfield	Cleveland, O.

